Chau Pham

chaupham1709 | chou pham |
phamhaichau99@gmail.com | Website: chaupham1709.github.io

Research Interests

My research interests lie in the field of Computer Vision, with a particular focus on advancing image generation by improving both quality and efficiency, as well as exploring its downstream applications, including image editing, personalization, and composition. I am also interested in challenges surrounding Large Vision-Language Models (LVLMs), particularly personalization and reasoning, as well as leveraging LVLMs to enhance other tasks such as image generation and scene understanding.

Education

University at Buffalo Aug 2023 - now

- Ph.D Student in Computer Science and Engineering. Advisor: David Doermann.

Hanoi University of Science and Technology Sep 2017 - May 2022

- B.Sc, Mechatronics, Honor program.

Research and Work Experience

University at Buffalo Aug 2023

Research Assistant
Topics:

- Image/video generation and its downstream task, including editing, personalization, and composition.
- Large Vision-Language Model application, including personalization, and VLM reasoning.

VinAI Research Dec 2020 - July 2023

VinAI Research Resident.
Project:

- Perception problems with less supervision, such as few-shot learning, open vocabulary learning, and unsupervised learning for solving object detection, image segmentation, and crowded scene counting.
- Project: 3D Object Detection in the monocular setting, Weakly supervision 3D Object Detection from 2D keypoints for reducing the annotation cost.

Publications and Preprint

- **Chau Pham**, Quan Dao, Mahesh Bhosale, Yunjie Tian, and David Doermann "AutoEdit: Automatic Hyperparameter Tuning for Image Editing", Neurips 2025.[pdf]
- **Chau Pham**, Hoang Phan, David Doermann, and Yunjie Tian, "Personalized Large Vision-Language Model", in MMFM Workshop, CVPRW 2025. [pdf]
- **Chau Pham**, Tuan Truong Vu, and Khoi Nguyen, "LP-OVOD: Open-Vocabulary Object Detection by Linear Probing on Pseudo Labels Retrieved from Top Relevant Box Proposals", in *Winter Conference on Applications of Computer Vision (WACV)*, 2024. [pdf]
- Thanh Nguyen*, **Chau Pham***, Khoi Nguyen, and Minh Hoai, "Few-Shot Object Counting and

Detection", in *European Conference on Computer Vision (ECCV)*, 2022. [pdf]

- Yunjie Tian, **Chau Pham**, Mahesh Bhosale, Qixiang Ye, David Doermann, "YoloMax: Real time Object Detection with Transformers", under review.
- Mahesh Bhosale, Naresh Kumar Devulapally, Abdul Wasi, **Chau Pham**, Vishnu Suresh Lokhande, and David Doermann, "Controlling Hallucinations in Diffusion Models: A Case Study on Chess", under review.

(∗) denotes equal contribution.

Professional services

- Reviewer at ICLR25, CVPR25, ICCV25, Neurips25, ICLR26.
- TA at UB.